

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001461

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. ⁷: C07K 4/04; 7/08; 14/335; C12N 15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

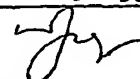
Minimum documentation searched (classification system followed by classification symbols)
SEE BELOWDocumentation searched other than minimum documentation to the extent that such documents are included in the fields searched
SEE BELOWElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
STN (CA: dgene): SEQ ID No 5; SWISSPROT: SEQ ID No 11

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	Applied and Environmental Microbiology 70, pp 3673-3680 (Jun 2004) TURNER, M ET AL "Identification and Characterization of the novel LysM domain-containing surface protein Sep from <i>Lactobacillus fermentum</i> BR 11 and its use as a peptide fusion partner in <i>Lactobacillus</i> and <i>Lactococcus</i> "; see whole document	1-11
A	Genome Research 11, pp 731-753 (2001) BOLOTIN ET AL "The complete genome sequence of the lactic acid bacterium <i>Lactococcus lactis</i> ssp. <i>lactis</i> IL 1403"; see whole document	1-11

☐ Further documents are listed in the continuation of Box C☐ See patent family annex

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
25 November 2004Date of mailing of the international search report
6 DEC 2004Name and mailing address of the ISA/AU
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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - ☒ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☐ in written format
 - ☒ in computer readable form
 - c. time of filing/furnishing
 - ☒ contained in the international application as filed
 - ☐ filed together with the international application in computer readable form
 - ☐ furnished subsequently to this Authority for the purposes of search
2. ☒ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 1
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claim 1 recites domains and regions of a peptide which encompass a vast number of amino acid variations. Thus a meaningful search is not possible and could not be carried out for the subject matter of claim 1.
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Inventions 1-6: Claim 2 insofar as the invention relates to SEQ ID Nos 1-6;

Inventions 7-20 Claim 9 insofar as the invention relates to SEQ ID Nos 7-20.

The applicant selected SEQ ID Nos 5 and 11 as the single invention to be searched

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
The applicant selected SEQ ID Nos 5 and 11 as the invention to be searched.

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.